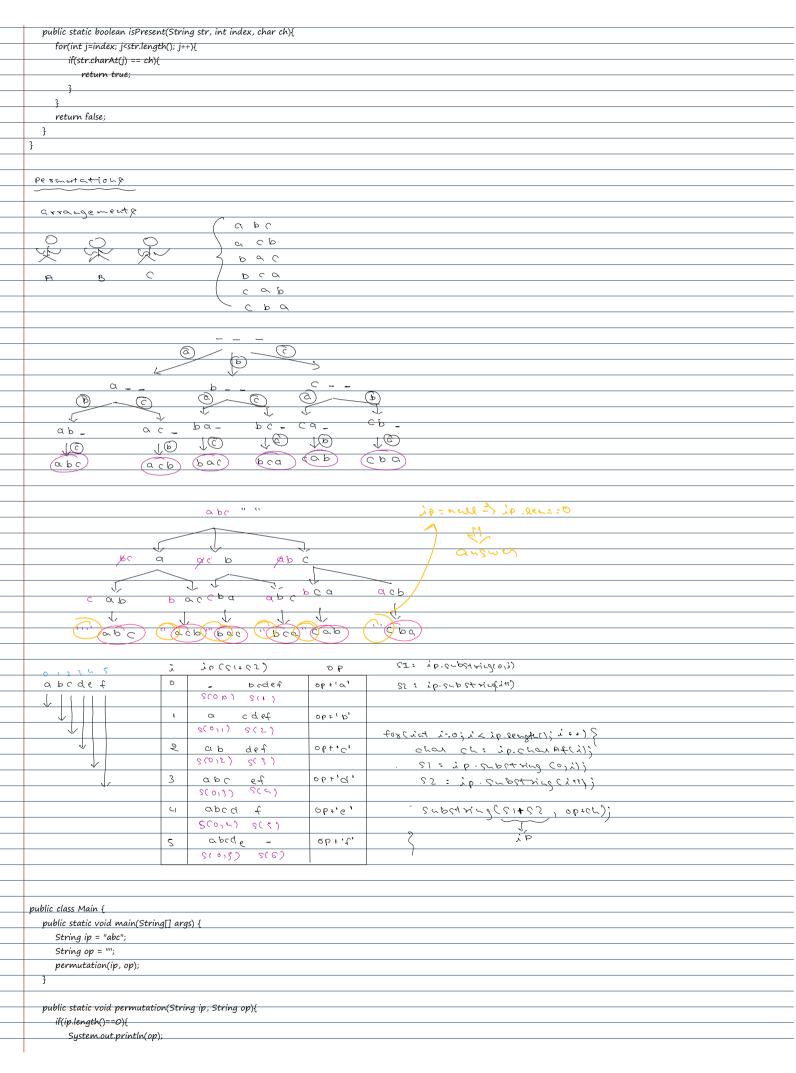
```
public class Main {
   public static void main(String[] args) {
      int n = 3;
       String ans = "";
       int open = 0;
      int closed = 0;
       paranthesis(n, open, closed, ans);
    public static void paranthesis(int n, int open, int closed, String ans){
       if(open==n && closed==n){
          System.out.println(ans);
      if(open > n || closed > open){
         return;
       paranthesis(n, open+1, closed, ans+"(");
       paranthesis(n, open, closed+1, ans+")");
}
class Solution {
  public List<String> generateParenthesis(int n) {
      List<String> opList = new ArrayList<>();
     String ans = "";
     int open = 0;
     int closed = 0;
     paranthesis(n, open, closed, ans, opList);
      return opList;
  }
   public static void paranthesis(int n, int open, int closed, String ans, List<String> opList){
     if(open==n && closed==n){
         opList.add(ans);
        // System.out.println(ans);
     if(open > n || closed > open){
     paranthesis(n, open+1, closed, ans+"(", opList);
     paranthesis(n, open, closed+1, ans+")", opList);
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return;
      for(int i=0; i<ip.length(); i++){
         char ch = ip.charAt(i);
         String s1 = ip.substring(0, i);
         String s2 = ip.substring(i+1);
         permutation(s1+s2, op+ch);
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public class Main {
   public static void main(String[] args) {
      String ip = "abca";
String op = "";
      permutation(ip, op);
   public static void permutation(String ip, String op){
      if(ip.length()==0){
         System.out.println(op);
         return;
      for(int i=0; i<ip.length(); i++){
         char ch = ip.charAt(i);
         if(isPresent(ip, i+1, ch) == false){
            String s1 = ip.substring(0, i);
            String s2 = ip.substring(i+1);
            permutation(s1+s2, op+ch);
   public static boolean isPresent(String str, int index, char ch){
      for(int j=index; j<str.length(); j++){
         if(str.charAt(j) == ch){
             return true;
      return false;
}
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